Preliminary

ORDER NO. SD-178

NATIONAL Service Manual

SOLID STATE INTEGRATE AMPLIFIER

MODEL SU-50A

SPECIFICATIONS

POWER AMPLIFIER SECTION

Music Power (IHF) :		120W (4Ω)
RMS Power :		90W (8Ω) 40W (4Ω) 30W (8Ω)
Harmonic Distortion :		less than 0.1%
Frequency Response :		5Hz～150kHz +0dB −3dB
S/N (IHF) :		more than 95dB
Input Sensitivity & Impedance :		1V/50kΩ
Rated Load :		4～16Ω

PRE-AMPLIFIER SECTION

Input Sensitivity & Impedance :	PHONO 1, PHONO 2	1mV/47kΩ
	TUNER, AUX 1, AUX 2	100mV/70kΩ
Max. Input Voltage (THD 0.1% at 1kHz) :		
PHONO 1, PHONO 2		140mV
Harmonic Distortion :		less than 0.1%
S/N (IHF) : PHONO 1, PHONO 2		more than 70dB
TUNER, AUX 1, AUX 2		more than 90dB
Output Voltage : Rated LOW		1V/3kΩ
HIGH		5V/200Ω
Max. (THD 0.1%, 1kHz)		
LOW		1.8V
HIGH		9V
Frequency Response (VR-max, Tone Controls flat) :		
PREAMP LOW OUT		
PHONO 1, PHONO 2 (Deviation from RIAA standard)		less than ±0.5dB
TUNER AUX 1, AUX 2	5Hz～150kHz,	+0dB −3 dB
PREAMP HIGH OUT		
TUNER, AUX 1, AUX 2	5Hz～200kHz,	+0dB −3dB
Tone Controls :		
BASS		±15dB, 100Hz
TREBLE		±15dB, 10kHz
Turnover Frequency		BASS 250Hz, 500Hz TREBLE 2.5kHz, 5kHz
Low Filter :		30Hz −12dB/oct
FIGH Filter :		8kHz −12dB/oct
Muting :		−20dB
TAPE MONITOR :		
PLAY		100mV/70kΩ
REC		100mV/200Ω
REC/PLAY (DIN)		
Input		100mV/70kΩ
Output		30mV/60kΩ
POWER CONSUMPTION :		35～175VA
AC POWER SUPPLY :		100/117/220/240V
DIMENSIONS (wide ×high ×deep) :		16-17/32"×5-11/16"×12-13/16"
WEIGHT :		29.7 lbs.

Specifications are subject to change without notice.

TECHNISCHE DATEN

KRAFTVERSTÄRKERTEIL

Musikleistung (IHF) :		120W (4Ω)
Nennleistung :		90W (8Ω) 40W (4Ω) 30W (8Ω)
Klirrfaktor :		Weniger als 0.1%
Leistungsbandbreite :		5Hz～150kHz +0dB −3dB
Fremdspannungsabstand (IHF) :		Mehr als 95dB
Eingangsempfindlichkeit und Eingangsimpedanz :		1V/50kΩ
Nennbelastung :		4～16Ω

VORVERSTÄRKERTEIL

Eingangsempfindlichkeit und Eingangsimpedanz :		
PHONO 1, PHONO 2		1mV/47kΩ
TUNER, AUX 1, AUX 2.		100mV/70kΩ
Maximale Eingangsspannung (Klirrfaktor: 0.1% bei 1kHz) :		
PHONO 1, PHONO 2		140mV
Klirrfaktor :		Weniger als 0.1%
Fremdspannungsabstand (IHF) :		
PHONO 1, PHONO 2		mehr als 70dB
TUNER, AUX 1, AUX 2		mehr als 90dB
Ausgangsspannung :		
Nennspannungen LOW		1V/3kΩ
HIGH		5V/200Ω
Maximale Spannungen (Klirrfaktor: 0.1%, 1kHz)		
LOW		1.8V
HIGH		9V
Frequenzgang (Volumen: Max., Klangregler: "flat") :		
PREAMP LOW OUT		
PHONO 1, PHONO 2 (Abweichung vom RIAA-Standard)		weniger als ±0.5dB
TUNER, AUX 1, AUX 2	5Hz～150kHz,	+0dB −3dB
PREAMP HIGH OUT		
TUNER, AUX 1, AUX 2	5Hz～200kHz,	+0dB −3dB
Klangregler :		
Tiefen-Bereich (Bass)		±15dB, 100Hz
Höhen-Bereich (Treble)		±15dB, 10kHz
Umkehr-Frequenz		Bass 250Hz, 500Hz Treble 2,5kHz, 5kHz
Tiefenfilter :		30Hz, 12dB/oct
Höhenfilter :		8kHz, 12dB/oct
Dämpfen :		−20dB
Bandaussteuerungspegel :		
PLAY		100mV/70kΩ
REC		100mV/200Ω
REC/PLAY (DIN) Eingang		100mV/70kΩ
Ausgang		30mV/60kΩ
Leistungsaufnahme :		35～175VA
Netzspannung :		100/117/220/240V
Abmessungen (B ×H ×T) :		420×147×325mm
Gewicht :		13.5kg

Änderungen vorbehalten.

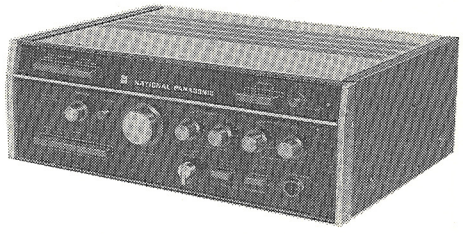
<EXPORT DIVISION>
MATSUSHITA ELECTRIC TRADING CO., LTD.
P. O. Box 288, Central Osaka, Japan

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
RADIO and STEREO DIVISION

REPLACEMENT PARTS LIST
STEREO MODEL SU-50A

LISTE DER ERSATZTEILE
STEREO MODEL SU-50A

NOTES: 1. Part numbers are indicated on most mechanical parts. Please use this number, for parts which have no Ref. No.
2. ISO metric thread screws & parts which employ ISO metric thread screws are indentified by ISO marking (ISO).
3. Ⓝ indicates the New Parts.
4. **A**–**C** rank. **A** rank parts will cover 80% of repair needs.
A+**B** rank parts will cover 95% of repair needs.
C rank parts are less necessary.
5. ( ) Part No. is old part No.
6. Please use the "Price" column as desired.
7. These parts are illustrated on prior pages according to their reference numbers.



BEMERKUNGEN:
1. Ersatzteilnummern sind auf den meisten mechanischen Teilen angegeben. Bitte benutzen Sie diese Nummer für Teile, die keine Ref. No. haben.
2. ISOmetrische Gewindeschrauben und Teile, die ISO metrische Gewindeschrauben verwenden, sind durch ISO (ISO) markiert.
3. Ⓝ bezeichnet Neue Teile.
4. **A**–**C** Rangordnung:
A Teile decken 80% des Reparaturbedarfs.
A+**B** Teile decken 95% des Reparaturbedarfs.
C Teil werden nur selten benutzt.
5. ( ) Teil Nummer ist die alte Teil Nummer.
6. Bitte benutzen Sie die "Preis"-Spalte nach Wunsch.
7. Diese Teile sind auf der verhergehenden Seite entsprechend ihren Bezugsnummern abgebildet.

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Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks		Price	
TRANSISTORS AND DIODES							
TR1~4, 9~12	2SA564AⒾ-R,S,T	Equalizer, Tone, Amplifier	18	Ⓝ	A		
TR5~8, 13~16	2SA564AⒾ-R,S,T or 2SA564AⒻ-Q,R,S	Equalizer, Silencer, Tone Amplifier	8	Ⓝ	A		
TR17~20	2SA564A-O	Differential Amplifier	2 pair	Ⓝ	A		
TR21~24	2SC696A-E	Differential Amplifier	2 pair	Ⓝ	A		
TR25, 26, 29, 30	2SC828-O	Thermo Compensation, Protection	4	Ⓝ	A		
TR27, 28	2SA564-O	Protection Circuit	2	Ⓝ	A		
TR31~34	2SB171	Protection Circuit	4	Ⓝ	A		
TR35, 36	2SA547A-E or 2SA607-M	Driver Amplifier	2	Ⓝ	A		
TR37, 38	2SC697A-E	Driver Amplifier	2	Ⓝ	A		
TR39~42	2SD189-P,Q,R	Power Amplifier	4	Ⓝ	A		
TR43	2SB473-M	Ripple Filter	1	Ⓝ	A		
D1, 2	RVDSV-02	Thermo Compensation	2	Ⓝ	A		
D3, 4	OA79	Counter Current Prevention	2		A		
D5~12	RVDSM150-005	Thermo Compensation, C.C. Prevention	8	Ⓝ	A		
D13, 15	MA242	Rectifier	2		A		
D14, 16	MA242R	Rectifier	2		A		
D17	RVDSD-1Y (SD-1Y)	Rectifier	1		A		

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Price	
		TRANSFORMER				
T1	SLTA501S	Power Transformer	1	Ⓝ A ISO		
		RESISTORS				
R1, 2, 71, 72	ERD14TJ473	47KΩ, 1/4 W, ±5%, Carbon	4	B		
R15, 16	ERD14TJ223	22KΩ, 1/4 W, ±5%, Carbon	2	B		
R3, 4, 21, 22, 29, 30, 47, 48, 59, 60, 111, 110	ERD14TJ102	1KΩ, 1/4 W, ±5%, Carbon	12	B		
R163, 164	ERD14TJ102	1KΩ, 1/4 W, ±5%, Carbon	2	B		
R27, 28, 55 56, 9, 10	ERD14TJ184	180KΩ, 1/4 W, ±5%, Carbon	6	B		
R19, 20, 31, 32, 39, 93, 49, 50, 116, 117	ERD14TJ474	470KΩ, 1/4 W, ±5%, Carbon	10	B		
R17, 18	ERD14TJ471	470Ω, 1/4 W, ±5%, Carbon	2	B		
R23, 24, 69, 70, 165, 166	ERD14TJ183	18KΩ, 1/4 W, ±5%, Carbon	6	B		
R25, 26, 35, 36, 43, 44, 61～64, 13, 14	ERD14TJ103	10KΩ, 1/4 W, ±5%, Carbon	12	B		
R37, 38, 85, 86	ERD14TJ104	100KΩ, 1/4 W, ±5%, Carbon	4	B		
R45, 46	ERD14TJ684	680KΩ, 1/4 W, ±5%, Carbon	2	B		
R53, 54	ERD14TJ393	39KΩ, 1/4 W, ±5%, Carbon	2	B		
R51, 52, 87, 88	ERD14TJ123	12KΩ, 1/4 W, ±5%, Carbon	4	B		
R57, 58, 77, 78	ERD14TJ152	1.5KΩ, 1/4 W, ±5%, Carbon	4	B		
R67, 68	ERD14TJ394	390KΩ, 1/4 W, ±5%, Carbon	2	B		
R81, 82	ERD14TJ564	560KΩ, 1/4 W, ±5%, Carbon	2	B		
R7, 8 79, 80	ERD14TJ824	820KΩ, 1/4 W, ±5%, Carbon	4	B		
R83, 84, 89, 90	ERD14TJ153	15KΩ, 1/4 W, ±5%, Carbon	4	B		
R73, 74	ERD14TJ683	68KΩ, 1/4 W, ±5%, Carbon	2	B		
R75, 76	ERD14TJ105	1MΩ, 1/4 W, ±5%, Carbon	2	B		
R41, 42	ERD14TJ472	4.7KΩ, 1/4 W, ±5%, Carbon	2	B		
R65, 66, 142, 143, 146, 147	ERD14TJ101	100Ω, 1/4 W, ±5%, Carbon	6	B		
R94, 95	ERD14TJ513	51KΩ, 1/4 W, ±5%, Carbon	2	B		
R91, 92, 96, 97, 98, 99	ERD14TJ392	3.9KΩ, 1/4 W, ±5%, Carbon	6	B		
R102～105	ERD14TJ562	5.6KΩ, 1/4 W, ±5%, Carbon	4	B		
R106, 107	ERD14TJ331	330Ω, 1/4 W, ±5%, Carbon	2	B		

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Price	
R100, 101	ERD14TJ682	6.8KΩ, 1/4 W, ±5%, Carbon	2	B		
R108, 109	ERD14TJ563	56KΩ, 1/4 W, ±5%, Carbon	2	B		
R122～125	ERD14TJ560	56Ω, 1/4 W, ±5%, Carbon	4	B		
R128～131	ERD14TJ470	47Ω, 1/4 W, ±5%, Carbon	4	B		
R136～139 144, 154 158, 159	ERD14TJ100	10Ω, 1/4 W, ±5%, Carbon	8	B		
R134, 135, 140, 141	ERD14TJ4R7	4.7Ω, 1/4 W, ±5%, Carbon	4	Ⓝ B		
R126, 127 132, 133	ERD14TJ681	680Ω, 1/4 W, ±5%, Carbon	4	B		
R161	ERD14TJ182	1.8KΩ, 1/4 W, ±5%, Carbon	1	B		
R11, 12, 162	ERD14TJ823	82KΩ, 1/4 W, ±5%, Carbon	3	B		
R33, 34	ERD14TJ333	33KΩ, 1/4 W, ±5%, Carbon	2	B		
R112, 113	ERD12TJ392	3.9KΩ, 1/2 W, ±5%, Carbon	2	B		
R118, 119 120, 121	ERD12TJ562	5.6KΩ, 1/2 W, ±5%, Carbon	4	B		
R5, 6	ERD12PXJ125	1.2MΩ, 1/2 W, ±5%, Carbon	2	B		
R156, 157, 160	ERM2P471	470Ω, 2 W, ±10%, Wire	3	B		
R148～153	ERM2PR47	0.47Ω, 2 W, ±10%, Wire	6	B		
R154, 155	ERC2SGK100	10Ω, 2 W, ±10%, Solid	2	B		
R114, 115	ERG2PSK392	3.9KΩ, 2 W, ±10%, Metallic	2	B		

VARIABLE RESISTORS

RV1, 2	EVLTOAAOOB54	TR1, 2 Bias Adjustment 50KΩ (B)	2	A		
RV3, 4	EVFKOAR35252 (EVFKIAR35252B)	Balance Control 250KΩ (BH)	1	Ⓝ A		
RV5, 6	EVGKIAR35AF5 (EVGKIAR35AF5A)	Volume Control 250KΩ (A)	1	Ⓝ A		
RV7, 8, 13, 14	EVFKOAR35357 (EVFKIAR35357)	Bass Control 500KΩ (DH) (RV7, 8) 10KΩ (WH) (RV13, 14)	2	Ⓝ A		
RV9～12	EVFKOAR35309 (EVFKIAR35309)	Treble Control 50KΩ (BH) (RV9, 10) 1KΩ (BH) (RV11, 12)	2	Ⓝ A		
RV15～18	EVLTOAAOOB14	DC Unbalance (RV15, 16) Collecter DC Balance 10KΩ (B)	4	A		
RV19, 20	EVLSOAAOOB53	ICQ Adjustment 5KΩ (B)	2	A		

CAPACITORS

C1, 2, 17, 18, 29, 30, 49～54	ECQM05334KZ	0.33 mfd, 50 WV, ±10%, Polyester	12	Ⓝ C		

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Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Price	
C61, 62	ECQM05473KZ	0.047 mfd, 50 WV, ±10%, Polyester	2	Ⓝ C		
C59, 60	ECQM05333KZ	0.033 mfd, 50 WV, ±10%, Polyester	2	Ⓝ C		
C37～40	ECQM05682KZ	6800 mf, 50 WV, ±10%, Polyester	4	Ⓝ C		
C45～48	ECQM05393KZ	0.039 mfd, 50 WV, ±10%, Polyester	4	Ⓝ C		
C55, 56	ECQM05122KZ	1200 mf, 50 WV, ±10%, Polyester	2	Ⓝ C		
C27, 28	ECQM05683KZ	0.068 mfd, 50 WV, ±10%, Polyester	2	Ⓝ C		
C21, 22	ECQM05822JZ	8200 mmf, 50 WV, ±5%, Polyester	2	Ⓝ C		
C23, 24	ECQM05222JZ	2200 mmf, 50 WV, ±5%, Polyester	2	Ⓝ C		
C92, 93	ECQM4223K	0.022 mfd, 400 WV, ±10%, Polyester	2	Ⓝ C		
C3, 4	ECCD05151K	150 mmf, 50 WV, ±10%, Ceramic	2	C		
C9, 10, 25, 26	ECCD05121K	120 mmf, 50 WV, ±10%, Ceramic	4	C		
C5, 6	ECCD05100KC	10 mmf, 50 WV, ±10%, Ceramic	2	C		
C13, 14	ECCD05820K	82 mmf, 50 WV, ±10%, Ceramic	2	C		
C103, 104	ECCD05181K	180 mmf, 50 WV, ±10%, Ceramic	2	C		
C105, 106	ECCD05470KC	47 mmf, 50 WV, ±10%, Ceramic	2	C		
C80, 81	ECCD5390K	39 mmf, 500 WV, ±10%, Ceramic	2	C		
C86, 87	ECCD5100K	10 mmf, 500 WV, ±10%, Ceramic	2	C		
C78, 79, 84, 85	ECCD5101K	100 mmf, 500 WV, ±10%, Ceramic	4	C		
C82, 83	ECCD5680K	68 mmf, 500 WV, ±10%, Ceramic	2	Ⓝ C		
C41～44	ECKD5681K	680 mmf, 500 WV, ±10%, Ceramic	4	Ⓝ C		
C57, 58	ECKD5471K	470 mmf, 500 WV, ±10%, Ceramic	2	Ⓝ C		
C96	ECKD5221K	220 mmf, 500 WV, ±10%, Ceramic	1	C		
C88～91	ECKE05102MY	0.001 mfd, 50 WV, ±20%, Ceramic	4	C		
C69	ECHS1105K	1 mfd, 150 WV, ±10%, MP	1	C		
C107	ECNU4A103M	0.01mfd, 400 WV, ±20%, Paper	1	C		
C7, 8	ECEA6V47	47 mfd, 6 WV, Electrolytic	2	B		
C11, 12	ECEA10V33	33 mfd, 10 WV, Electrolytic	2	B		
C19, 20 63～66	ECEA50B3R3	3.3 mfd, 50 WV, Electrolytic	6	Ⓝ B		
C15, 16, 33, 34	ECEA100V10	10 mfd, 100 WV, Electrolytic	4	Ⓝ B		
C67, 68	ECEA6V100	100 mfd, 6 WV, Electrolytic	2	B		
C31, 32	ECEA16V33	33 mfd, 16 WV, Electrolytic	2	B		
C70, 71	ECEA25V4R7	4.7 mfd, 25 WV, Electrolytic	2	B		
C72, 73	ECEA10V10	10 mfd, 10 WV, Electrolytic	2	B		
C74～77	ECEA50V100	100 mfd, 50 WV, Electrolytic	4	B		
C35, 36	ECEA50V10H	10 mfd, 50 WV, Electrolytic	2	B		
C95, 100	ECEV100V100	100 mfd, 100 WV, Electrolytic	2	B		
C97	ECEB100V22	22 mfd, 100 WV, Electrolytic	1	B		

Ref. No.	Part No.	Description	Pef Set (Pcs.)	Remarks	Price	
$C_{98, 99}$	ECEB150V10	10 mfd, 150 WV, Electrolytic	2	B		
$C_{101, 102}$	ECEM50R3300W	3300 mfd, 50 WV, Electrolytic	2	B		
C_{94}	ECEM80R1000X	1000 mfd, 80 WV, Electrolytic	1	B		

CERAMISTERS

$TH_{1\sim4}$	ERPF3B2K470S	47Ω, 100°C, ±10%	4	Ⓝ A		
$TH_{5, 6}$	ERPF5B2L800C	80Ω, 100°C, ±15%	2	Ⓝ A		
TH_7	ERPF5B2L500C	50Ω, 100°C, ±15%	1	Ⓝ A		

SWITCHES

S_1	SSHA502	Input Selector Switch	1	Ⓝ A		
$S_{2, 4, 5, 6}$	SSHA402	Tape Monitor, Loudness, Filter Switch	1	Ⓝ A		
S_3	ESRE245F35AS	Mode Selector Switch	1	Ⓝ B ISO		
$S_{7, 8}$	SSHA302	Torn-Over Frequency Switch	1	Ⓝ A		
S_9	SSHA4	Muting Switch	1	Ⓝ A		
$S_{10, 11}$	SSHA204	Speaker Selector Switch	1	Ⓝ A		
S_{12}	ESB2240S	Power Source Switch	1	Ⓝ A ISO		

CABINET

CA_1	SGWA191	Cover	1	Ⓝ C		
CA_2	SKMA30	Side Board, Cover (Left)	1	Ⓝ C		
CA_3	SKMA31	Side Board, Cover (Right)	1	Ⓝ C		
CA_4	SGXA19	Side Panel, (Right)	1	Ⓝ C		
CA_5	SGXA19-1	Side Panel, (Left)	1	Ⓝ C		
CA_6	SGWA201S	Panel	1	Ⓝ B ISO		
CA_7	SKDA140	Dial Plate-A	1	Ⓝ B		
CA_8	SKDA80	Dial Plate-B	1	Ⓝ B		
CA_9	SBNA11-1S	Knob, Volume Control	1	Ⓝ A ISO		
CA_{10}	SBNA12-1S	Knob (Balance, Bass, Treble Control)	5	Ⓝ A ISO		
CA_{11}	SBCA20	Button, Power Source Switch	1	Ⓝ A		
CA_{12}	SBCA9	Button, Muting Switch	1	Ⓝ A		

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Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Price	
CA13	SBCA8	Button (Input Selector, Turn Over)	7	Ⓝ A		
CA14	SBNA13S	Knob Mode Selector	1	Ⓝ A ISO		
CA15	SBCA15	Button (Tape,Loudness, Filter, Speaker)	6	Ⓝ A		
CA16	SMNA99S	Rear Panel	1	Ⓝ B ISO		
	SUWA86S	Bottom Board-A	1	Ⓝ C ISO		
CA17	SNEA401	Nut (Speaker, Ground Terminal)	9	C		
CA18	SNEA202-1S	Volt (Speaker, Ground Terminal)	9	C ISO		
CA19	SJFA3402	Terminal (Pre Output, Tape Monitor)	2	Ⓝ C		
CA20	SJFA3003	Terminal, Input	1	Ⓝ C		
CA21	SJFA3201	Terminal, Power Amp. Input	1	Ⓝ C		
CA22	RJP5	Pin-Plug, Input Terminal	14	C		
CA23	SJP9103	Short Pin-plug, Input Terminal	2	C		
CA24	SJP2103	Short Pin, Pre Amp. Out-Power Amp. in	2	B		
CA25	SJSA9201	Socket, AC Outlet	4	Ⓝ B		
CA26	SJFA101	Holder, Fuse	1	C		
CA27	RJS31	Socket, Din	1	B		
CA28	SJJA6	Jack, Head Phones	1	Ⓝ B		
CA29	RHR111	Grommet, AC Cord	1	C		
CA30	SNEA208-1	Nut, Head Phones	1	Ⓝ B		
CA31	RJA32	AC Cord, Power Source	1	B		
	SHGA301	Foot, Rubber	4	C		
	XSN3D6S (DM3-6S)	Screw, Bottom Board-A M'tg.	9	C ISO		
	XSN3D8S (DM3-8S)	Screw, Bottom Board-A M'tg.	4	C ISO		
	XSS3+8S	Screw, Panel M'tg.	3	Ⓝ B ISO		
	XSS3+12S	Screw, Panel M'tg.	3	Ⓝ B ISO		
	XSB3+10BCS	Screw, Side Panel M'tg.	4	Ⓝ B ISO		
	XSB4+10BVCS	Screw, Side Board Cover M'tg.	4	Ⓝ B ISO		
CA32	SGT570	Name Plate	1	Ⓝ C		

CHASSIS

CH1	SMY57S	Heat Sink, TR35~38	4	C ISO		
	SJJA5-1	Connecter, p.c.b.	4	Ⓝ B		
CH2	SJS9603	Socket, Voltage Select	1	Ⓝ B		
CH3	SJP9003	Plug, Voltage Select	1	Ⓝ B		
CH4	XBASIB3001 (SSF-A3023)	Fuse, 125V 3A	1	A		

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Price	
CH_5	SGLA2	Light, Panel	1	Ⓝ A		
CH_6	XAMR14T100	Light, Dial 12V 50mA	9	Ⓝ A		
CH_7	SMZA8	Cover, Light	6	Ⓝ C		
CH_8	SNEA904S	Supporter, Voltage Select	2	Ⓝ C ISO		
CH_9	SNEA905S	Spacer, $TR_{42, 41}$	4	Ⓝ C ISO		
	XTN3D12B (DSTR3-12)	Screw, Power TR. Heat Sink M'tg.	6	C		

ACCESSORIES

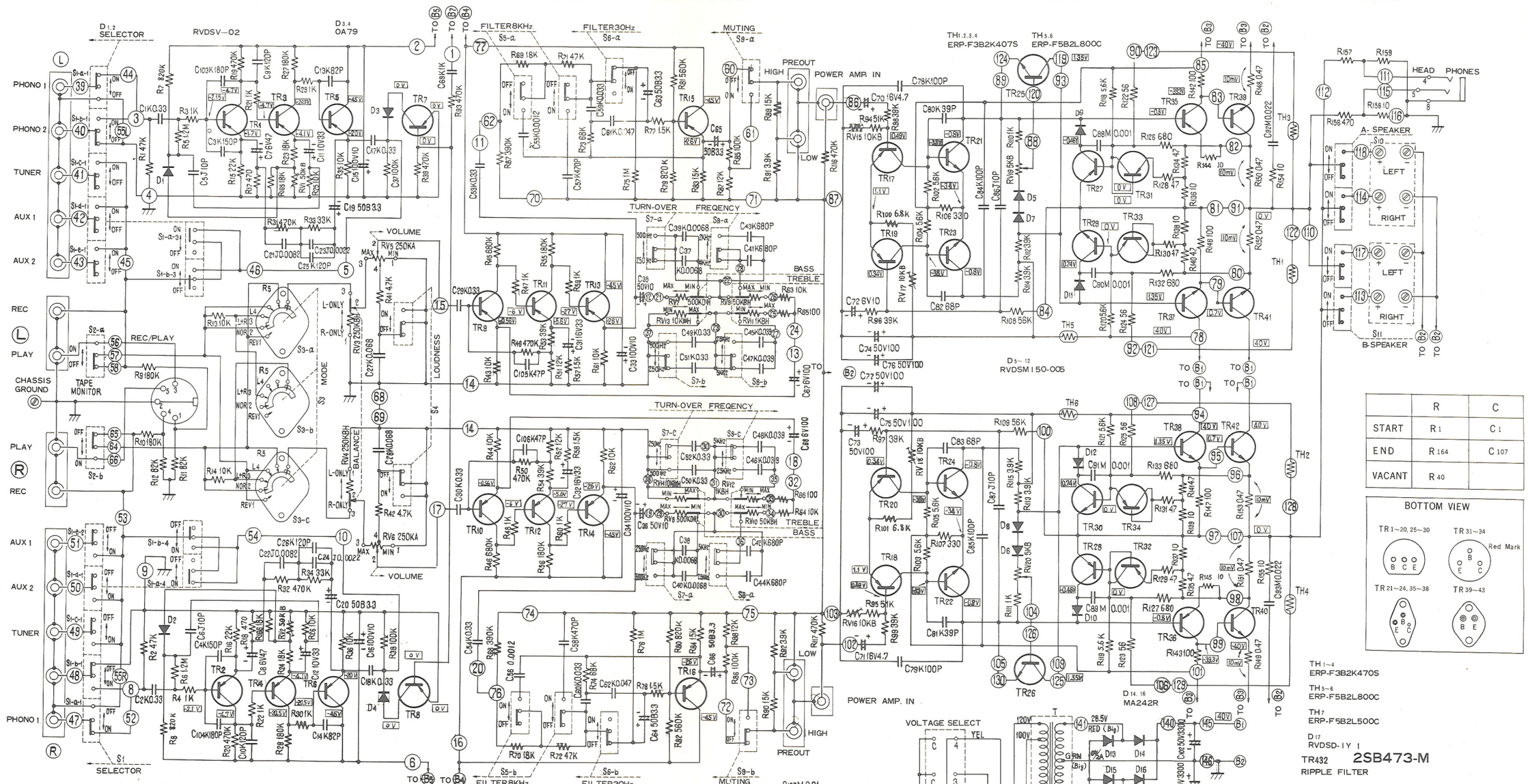
A_1	RJP74	Plug, Power Source	1	B		
A_2	RJP75	Plug, Power Source	1	B		
A_3	XBAIE30NR5	Fuse, 125V 3A	1	Ⓝ A		

PACKING

P_1	SPPA20	Soft Cover	1	Ⓝ C		
P_2	SPHA6009	Polyethylene Seat	1	C		
P_3	SPNA103	Top Pad	1	Ⓝ C		
P_4	SPNA102	Bottom Pad	1	Ⓝ C		
P_5	SPNA99	Carton Box (Inner)	1	Ⓝ C		
P_6	SPGA58	Pad, Inner Carton Box	2	Ⓝ C		
P_7	SPGA57	Side Pad	4	Ⓝ C		
P_8	SPGA53	Carton Box (Outer)	1	Ⓝ C		
P_9	SQFA48	Printed Matter	1	Ⓝ B		

SCHEMATIC DIAGRAM MODEL SU-50A

TR 5～8, 13～16 2SA564A(I)-R.S.T or 2SA564A(F)-Q.R.S — EQUALIZER, SILENCER, TONE AMP.
TR 1～4, 9～12 2SA564A(I)-R.S.T — EQUALIZER TONE AMP.
TR 17～20 2SA564A-O — DIFFERENTIAL AMP.
TR 21～24 2SC696A-E — DIFFERENTIAL AMP.
TR 25. 26. 29. 30 2SC828-O — PROTECTION THERMO COMPENSATION
TR 27. 28 2SA564-O — PROTECTION
TR 31～34 2SB171 — PROTECTION
TR 35. 36 2SA547A-E or 2SA607-M — DRIVER AMP.
TR 37. 38 2SC697A-E — DRIVER AMP.
TR 39～42 2SD189-Q — POWER AMP.



	R	C
START	R 1	C 1
END	R 164	C 107
VACANT	R 40	

BOTTOM VIEW

TR 1～20, 25～30 — TR 31～34 (Red Mark)

TR 21～24, 35～38 — TR 39～43

NOTE:

1. S1-a～S1-e Selector switch, in "PHONO 1" position
2. S2-a～S2-b Tape Monitor switch, in "Source" position
3. S3-a～S3-c Mode selector switch, in "NORM" position
4. S4 Loudness switch, in "OFF" position
5. S5-a～S5-b Filter switch (8kHz), in "OFF" position
6. S6-a～S6-b Filter switch (30Hz), in "OFF" position
7. S7-a～S7-d Turn-Over Frequency switch, in "250Hz" position
8. S8-a～S8-d Turn-Over Frequency switch, in "5kHz" position
9. S9-a～S9-b Muting switch, in "OFF" position
10. S10 A-Speaker switch, in "OFF" position
11. S11 B-Speaker switch, in "OFF" position
12. S12 Power source switch, in "OFF" position

Bemerkungen:

1. S1-a～S1-e: Bandwählerschalter in der "PHONO 1" Stellung.
2. S2-a～S2-b: Bandmithörschalter in der "SOURCE" Stellung.
3. S3-a～S3-c: Modulationsschalter in der "STEREO" Stellung.
4. S4: Lautstärkeschalter in der "OFF" Stellung.
5. S5-a～S5-b: Filterschalter (8 kHz) in der "OFF" Stellung.
6. S6-a～S6-b: Filterschalter (30 Hz) in der "OFF" Stellung.
7. S7-a～S7-d: Umkehr Frequenzschalter in der "250 Hz" Stellung.
8. S8-a～S8-d: Umkehr Frequenzschalter in der "5 kHz" Stellung.
9. S9-a～S9-b: Dämpfenschalter in der "OFF" Stellung.
10. S10: A-Lautsprecherschalter in der "OFF" Stellung.
11. S11: B-Lautsprecherschalter in der "OFF" Stellung.
12. S12: Stromschalter in der "OFF" Stellung.

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